KTOR-6069 Created by Hesham Zakaria 3 months ago   Updated by Hesham Zakaria 3 months ago   Visible to issue readers

Ktor Native Build Issue

DUPLICATES 1 ISSUE (1 UNRESOLVED)

☐   KTOR-3453   GraalVM native image: "getBuiltInClassByFqName must not return null" error when running a server with application config   1 👍   3 💬

Project	Ktor
Assignee	Unassigned
Subsystem	Infrastructure
Affected versions	2.3.2
IntelliJ IDEA Version	No plugin version
Type	Bug B
State	Duplicate
Target release	No target release

Hello,

I am trying to build simple Ktor application with GraalVM, and the build completed successfully, but when I tried to run the application, the application failed to run with the following exception:

I am attaching the application.

```
 1  2023-07-04 23:22:33.106 [DefaultDispatcher-worker-1] INFO  Application - Autoreload is disabled because the development mode is
 2  Exception in thread "main" io.ktor.server.engine.internal.ReloadingException: Module function cannot be found for the fully qua
 3          at io.ktor.server.engine.internal.CallableUtilsKt.executeModuleFunction(CallableUtils.kt:27)
 4          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading$launchModuleByName$1.invoke(ApplicationEngineEnvironment
 5          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading$launchModuleByName$1.invoke(ApplicationEngineEnvironment
 6          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.avoidingDoubleStartupFor(ApplicationEngineEnvironmentRel
 7          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.launchModuleByName(ApplicationEngineEnvironmentReloading
 8          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.access$launchModuleByName(ApplicationEngineEnvironmentRe
 9          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading$instantiateAndConfigureApplication$1.invoke(ApplicationE
10          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading$instantiateAndConfigureApplication$1.invoke(ApplicationE
11          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.avoidingDoubleStartup(ApplicationEngineEnvironmentReload
12          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.instantiateAndConfigureApplication(ApplicationEngineEnvi
13          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.createApplication(ApplicationEngineEnvironmentReloading.
14          at io.ktor.server.engine.ApplicationEngineEnvironmentReloading.start(ApplicationEngineEnvironmentReloading.kt:276)
15          at io.ktor.server.cio.CIOApplicationEngine$initServerJob$1$2.invokeSuspend(CIOApplicationEngine.kt:207)
16          at io.ktor.server.cio.CIOApplicationEngine$initServerJob$1$2.invoke(CIOApplicationEngine.kt)
17          at io.ktor.server.cio.CIOApplicationEngine$initServerJob$1$2.invoke(CIOApplicationEngine.kt)
18          at kotlinx.coroutines.intrinsics.UndispatchedKt.startUndispatchedOrReturn(Undispatched.kt:78)
19          at kotlinx.coroutines.BuildersKt__Builders_commonKt.withContext(Builders.common.kt:167)
20          at kotlinx.coroutines.BuildersKt.withContext(Unknown Source)
21          at io.ktor.server.cio.CIOApplicationEngine$initServerJob$1.invokeSuspend(CIOApplicationEngine.   Java stack trace detected
```

Attachments 1

📦 ZIP
ktor-demo-native

Aleksei Tirman commented 5 Jul 2023 10:18

Thank you for the report. This issue is known (KTOR-3453).

Hesham Zakaria commented 5 Jul 2023 12:02

Thanks for your response.

I updated the files accordingly, but now I am getting different exception.

```
 1  2023-07-05 12:59:05.907 [DefaultDispatcher-worker-1] INFO  Application - Autoreload is disabled because the development
 2  Exception in thread "main" java.lang.AssertionError: Built-in class kotlin.Any is not found
 3          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns$3.invoke(KotlinBuiltIns.java:93)
 4          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns$3.invoke(KotlinBuiltIns.java:88)
 5          at kotlin.reflect.jvm.internal.impl.storage.LockBasedStorageManager$MapBasedMemoizedFunction.invoke(LockBasedSt
 6          at kotlin.reflect.jvm.internal.impl.storage.LockBasedStorageManager$MapBasedMemoizedFunctionToNotNull.invoke(Lo
 7          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns.getBuiltInClassByName(KotlinBuiltIns.java:223)
 8          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns.getAny(KotlinBuiltIns.java:228)
 9          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns.getAnyType(KotlinBuiltIns.java:498)
10          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns.getNullableAnyType(KotlinBuiltIns.java:503)
11          at kotlin.reflect.jvm.internal.impl.builtins.KotlinBuiltIns.getDefaultBound(KotlinBuiltIns.java:508)
12          at kotlin.reflect.jvm.internal.impl.descriptors.impl.TypeParameterDescriptorImpl.createWithDefaultBound(TypePar
13          at kotlin.reflect.jvm.internal.impl.descriptors.NotFoundClasses$MockClassDescriptor.<init>(NotFoundClasses.kt:5
14          at kotlin.reflect.jvm.internal.impl.descriptors.NotFoundClasses$classes$1.invoke(NotFoundClasses.kt:45)
15          at kotlin.reflect.jvm.internal.impl.descriptors.NotFoundClasses$classes$1.invoke(NotFoundClasses.kt:33)
16          at kotlin.reflect.jvm.internal.impl.storage.LockBasedStorageManager$MapBasedMemoizedFunction.invoke(LockBasedSt
17          at kotlin.reflect.jvm.internal.impl.storage.LockBasedStorageManager$MapBasedMemoizedFunctionToNotNull.invoke(Lo
18          at kotlin.reflect.jvm.internal.impl.descriptors.NotFoundClasses.getClass(NotFoundClasses.kt:97)
19          at kotlin.reflect.jvm.internal.impl.serialization.deserialization.TypeDeserializer.typeConstructor$notFoundClas
20          at kotlin.reflect.jvm.internal.impl.serialization.deserialization.TypeDeserializer.typeConstructor(TypeDeserial
21          at kotlin.reflect.jvm.internal.impl.serialization.deserialization.TypeDeserializer.sir Java stack trace detected er.
```

Hesham Zakaria commented 6 Jul 2023 15:21

Update.

I found a solution to the exception by adding the following to the resource-config.json

```
1  {
2    "pattern": "\\Qkotlin/kotlin.kotlin_builtins\\E"
3  }
```
C detected